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worth thinks he has proved that the eastern sandstone conformably underlies the copper-bearing rocks, and that both are of the same geological age, and that the evidence brought forward by Dr. Rominger until disproved, shows that Messrs. Foster and Whitney were correct in regarding it as of Potsdam age.

Two other papers by Mr. Wadsworth appear in the Geological series of the Bulletin of the Museum of Comparative Zoölogy, (Nos. III, IV, May 1881). No. III is on an occurrence of gold in Maine, at Sullivan, Hancock county. No. IV, is of considerable interest, being a microscopical study of the iron ore, or peridotite of Iron Mine hill, Cumberland, R. I. The rock is similar to the celebrated iron ore of Taberg, Sweden, which has been worked for over 300 years. As it was impossible by field observations to determine the origin of the rock, Mr. Wadsworth concludes that it is most probably eruptive in its nature. This examination may serve, the author adds, as an illustration of the aid that microscopical lithology may be to the practical side of life.

THE ECONOMIC ENTOMOLOGY OF ONTARIO, CANADA.¹—This is one of a series of reports which have been annually issued since 1870 by a Society which has done much good, both in the Provinces and in the United States, towards compiling and diffusing a knowledge of the habits of our more injurious insects. These reports are mostly made up of compilations from American authors, and while the scientific organ of the Society, the *Canadian Entomologist*, which has many contributors in the States, publishes much that is new about our common injurious insects, it would be well if our Canadian friends could find the opportunity to make and publish in their Annual Report original observations, for the field is a wide one, and original observers are sadly needed.

THE GEOLOGY OF INDIANA.²—While the larger proportion of this report is devoted to statistics and allied subjects, about one hundred pages bear upon the geology and palæontology of the State, the latter comprising descriptions of the more characteristic fossils of Indiana, by Dr. C. A. White, adapted for the use of the public and beginners in the study.

RECENT BOOKS AND PAMPHLETS.—Klassen und Ordnungen des Thier-Reichs. Dr. H. G. Bronn, Fortgesetzt von C. K. Hoffmann, Prof. in Leiden. Sechstes Band, III, Abtheilung. Reptilien, 16. und 17. Lieferung. 12vo, pp. 68, 3 plates. Leipzig und Heidelberg, 1881. From the editors.

Simosaurus pusillus, aus der Lettenkohle von Holeneck, von Dr. Oscar Fraas. Separat-Abdruck aus den Württemb. Naturw. Jahreshäften, Jahrg. 1881. 8vo, pp. 6, 1 plate. From auth. r.

Paleoethnologie de L'Antiquité de L'Homme dans les Alpes-Maritimes, par Emile Rivière. Planches en chromo-lithographie par J. Cillay. Gravures sur Bois par Guzman. 4vo, pp. 31, iv, plates. Paris, 1881. From the author.

¹ *Annual Report of the Entomological Society of the Province of Ontario for the year 1880.* Printed by order of the Legislative Assembly, Toronto, 1881. 8vo, pp. 89.

² *Second Annual Report of the Department of Statistics and Geology, 1880.* (By JOHN COLLETT, Chief of Bureau.) Indianapolis, 1880. 8vo, pp. 544.

Sur les plus anciens Reptiles trouvés en France. Par M. A. Gaudry. 4vo, pp. 4. Paris 1881. From the author.

Note sur une Nouvelle et Très Petite espèce de Musaraigne, de Madagascar. Par le Dr. E. L. Trouessart. 8vo, pp. 12, 1 plate. Paris, 1881. From the author.

Revision synoptique du Genre *Semnopitheque* (*Semnopithecus*) et description de quelques espèces rares au peu connus. Par le Dr. E. L. Trouessart. 8vo, pp. 33. Paris, 1881. From the author.

Horse, Part I, Zoölogy and Anatomy. Prof. W. H. Flower. 8vo, pp. 12, cuts. Reprint from *Encyclopedia Britannica*, 1881. From the author.

On the Male Generative organs of the Sumatran Rhinoceros (*Ceratorhinus sumatranus*). By W. A. Forbes, B.A., F.L.S., Scholar of St. John's College, Cambridge, Prosector to the Society. From the transactions of the Zoological Society. 4to, pp. 4, 1 plate. Cambridge, 1881. From the author.

On the Elephant Seal (*Macrorhinus leoninus* Linn) by William H. Flower, LL.D., F.R.S., P.Z.S., &c., &c. From the proceedings of the Zoological Society of London. 8vo, pp. 17. London, 1881. From the author.

On the Bursa Fabricii in Birds. By W. A. Forbes, F.Z.S. From proceedings of the Zoological Society of London. 8vo, pp. 15, cuts. London, 1881. From the author.

On some points in the structure of *Nasiterna*, bearing on its Affinities. By W. A. Forbes, B.A., F.L.S., Scholar of St. John's College, Cambridge, Prosector to the Society. From the proceedings of the Zoological Society of London. 8vo, pp. 2. London, 1880. From the author.

Contributions to the Anatomy of Passerine Birds, Part I. On the structure of the stomach in certain genera of Tongers. By W. A. Forbes, B.A., F.L.S., Scholar to St. John's College, Cambridge, Prosector to the Society. *Proc. Zool. Soc.* 8vo, pp. 6, cuts. London, 1881. From author.

Contributions to the Anatomy of Passerine Birds, Part II. On the Syrinx and other points in their Anatomy of the *Eurylæmidæ*. By W. A. Forbes, B.A., F.L.S., Scholar of St. John's College, Cambridge, Prosector to the Society. From the proceedings of the Zoological Society of London, May 4, 1880. 8vo, pp. 8, cuts. London, 1880. From the author.

Contributions to the Anatomy of Passerine Birds, Part III. On some points in the structure of *Philepitta*, and its position amongst the *Passeres*. By William A. Forbes, B.A., F.L.S., Prosector to the Society. *Proceedings Zool. Soc.*, 1880, No. xxvi. 8vo, pp. 6, cuts. Cambridge, 1881. From the author.

On some points in the Anatomy of the Koala (*Phascolarctos cinerus*). By W. A. Forbes, B.A., F.L.S., F.Z.S., Prosector to the Society. From the proceedings of the Zoological Society of London, Jan. 18, 1881. 8vo, pp. 18, cuts. London, 1881. From the author.

Note on Mr. Barlett's communication on the habits of the Darter. By W. A. Forbes, B.A., Prosector to the Society. From the Zoological Society of London. February 1, 1881. 8vo, pp. 1. London, 1881. From the author.

On the Anatomy of *Leptosoma discolor*. By W. A. Forbes, B.A., F.L.S., Prosector to the Society. From the proceedings of the Zoological Society of London. June 15, 1880. 8vo, pp. 10, cuts. London, 1880. From the author.

On the Anatomy of the African Elephant (*Elephas africanus* Blum.). By W. A. Forbes, F.Z.S., F.L.S. From the proceedings of the Zoological Society of London. May 6, 1879. 8vo, pp. 18, cuts. London, 1879. From the author.

On the External Characters and Anatomy of the Red Uakari Monkey (*Brachyurus rubicundus*), with remarks on the other species of that Genus. By W. A. Forbes, B.A., F.L.S., Fellow of St. John's College, Cambridge, Prosector to the Society. From the proceedings of the Zoological Society of London, November 30, 1880. 8vo, pp. 26, 3 plates, cuts. London, 1880. From the author.

Note on a specimen of Denham's Bustard (*Eupodotis denhami*). By W. A. Forbes, B.A., F.L.S., Prosector to the Society. From the proceedings of the Zoological Society of London, June 15, 1880. 8vo, pp. 2. London, 1880. From the author.

On the contributions to the Anatomy and classification of Birds, made by the late Prof. Garrod, F.R.S. By W. A. Forbes, B.A. Fellow of St. John's College, Cambridge, Prosecutor to the Zoological Society of London. The Ibis. Fourth Series, No. XVII, January, 1881. 1. London, 1881. From the author.

Reports of Geological Explorations during 1879-80. With maps, and sections. James Hector, C.M.C., M.D., F.R.S., Director. Published by command. Gov. Printing Office, Wellington, New Zealand. 8vo, pp. 166, maps, cuts. Wellington, 1881. From the author.

Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution for year 1879. 8vo, bound, pp. 631, cuts. Gov. Printing Office. Washington, 1881.

The Paleontologist, June 10, 1881. Contributions to Paleontology, fossils of the Lower Silurian formation, Ohio, Indiana and Kentucky. By U. P. James. 8vo, pp. 8. Cincinnati, 1881. From the author.

The Panama Canal and the Isthmus. By Col. James Worrall. Reprint from the Engineer's Club of Philadelphia. Vol. II, No. 2, 1881. 8vo, pp. 8. Philadelphia, 1881. From the author.

Proceedings of the California Academy of Science, at its regular meeting, held June 6, 1881. Reception of Lieut. Robert M. Berry, U. S. N., commanding U. S. Steamer Rodgers of the Jeanette Search Expedition. San Francisco, Cal., 1881. From the society.

New Species of Fossils and Remarks upon others from the Niagara Group of Illinois. By S. A. Miller. 8vo, pp. 12, 1 plate. Cincinnati, 1881. From the author.

The Mica Veins of North Carolina. By W. C. Kerr, State Geologist, Raleigh, North Carolina. From the Transactions of the American Institute of Mining Engineers. 8vo, pp. 6, cuts. New York, Feb., 1881. From the author.

The structure, affinities and species of Scolopendrella. By John A. Rider. 8vo, pp. 8, cuts. From the proceedings of the Natural Sciences of Philadelphia, 1881. Philadelphia, 1881. From the author.

Proceedings of the United States National Museum. 8vo, pp. 40, 1881. Washington, 1881.

Memoirs of the Peabody Academy of Science, Vol. I, No. v. 4to, pp. 14, 2 plates. Salem, Mass., 1881. From the academy.

Memoirs of the Peabody Academy of Science, Vol. I, No. vi. 4to, pp. 20, 1 plate. Salem, Mass., 1881. From the academy.

Illustrations of the Nests and Eggs of Birds of the United States. With Text. By Thomas G. Gentry, 4to, pp. 6, 2 plates. Part 8. Philadelphia, 1881. From the author.

Illustrations of the Nests and Eggs of the Birds of the United States. With Text. By Thos. G. Gentry, 4to, pp. 14, 2 plates. Part 9. Philadelphia, 1881. From the author.

Gill-Nets in the Cod Fishery, etc. U. S. Commission of Fish and Fisheries. By Capt. J. W. Collins. Bulletin U. S. Fish Commission 1, April, 1881. Washington, 1881.

Report of the State Commissioners of Fisheries for the years 1879 and 1880. 8vo, bound, pp. 151, cuts. State Printer, Harrisburg, 1881.

Notes on North American Microgasters with descriptions of new species. By C. V. Riley, M.A., Ph.D. From the Transactions of the Academy of Science of St. Louis, Vol. IV, No. 2. 8vo, pp. 20, cuts. St. Louis, April 6, 1881. From the author.

Johns Hopkins University, Baltimore. Studies from the Biological Laboratory. Editor H. Newell Martin, M.A., D.Sc., M.D. Associate Editor, W. K. Brooks, Ph.D., Vol. II, No. 1. Johns Hopkins University, June, 1881. From the editors.

Illinois State Laboratory of Natural History. Bulletin No. 4. Catalogue of Birds of Illinois. By Robert Ridgeway, Bloomington, Ill. 8vo, pp. 208, May, 1881. From the author.

A Report of twenty years' experience in the Department of Physical Education

and Hygiene in Amherst College. To the Board of Trustees. By Edward Hitchcock. 8vo, pp. 16, table. Amherst, Mass, 1881. From the author.

Ward's Natural Science Bulletin. 4to, pp. 16, cuts. New York, June 1, 1881. From the author.

On an occurrence of Gold in Maine. By M. E. Wadsworth. 8vo, p. 1, No. 3.

A Microscopical study of Iron Ore, or Peridotite of Iron Mine Hill, Cumberland, Rhode Island. By M. E. Wadsworth. 8vo, pp. 6, No. 4. From the Bulletin of Museum of Comparative Zoology, at Harvard College, Cambridge, Mass., May, 1881. From the author.

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GENERAL NOTES.

BOTANY.¹

THE POISON OF *ZYGADENUS PANICULATUS*.—A partial report from the Government chemist, shows that the bulbs of *Zygadenus paniculatus* Watson, have a glucosid to which their poisonous properties are attributed. Convulsions and speedy death follow the eating the bulbs of this plant. No antidote is yet known for it.—*M. E. Jones, Salt Lake City.*

GERMINATION OF *ASTRAGALUS UTAHENSIS*.—While gathering plants on the mountains near Salt Lake City (Utah Territory), I was very much puzzled by seedlings of our beautiful *Astragalus Utahensis* T. and G. It grows in the sand, first throwing up its small cotyledons, then producing two large round, woolly, simple leaves one inch in diameter, on a petiole often three inches long; after these comes another pair of similar leaves; then another with two leaflets on the long petiole, then another with either two leaflets (one on the end of the petiole and the other on one side), or three leaflets in the true odd-pinnate style; the next pair with either three or five, the next with five or seven, and so on. It is a long while after the germination of the seeds before one would suspect that it is an *Astragalus*, or even a member of the Leguminosæ.—*M. E. Jones, Salt Lake City.*

HOW OUR RED CLOVER BEHAVES.—In 1879 our crops of red clover (*Trifolium pratense*) were very luxuriant. After the haying season it made a second growth, in many instances little inferior to the first, and the seeds ripened very perfectly. But to the surprise of all the farmers hereabouts, the following spring (1880) found the clover seed completely killed out! This was very much of a discouragement to many of us who had but recently begun the cultivation of this excellent fodder plant in our comparatively new part of country. Our clover died, no doubt, from severe freezing in the winter of 1879–80, after a period of very great dryness during the latter part of summer, and all of the autumn. But little snow fell in the winter, so that the plants were without the protection which it usually affords. We all thought, however, that the seeds would germinate in the spring,

¹ Edited by PROF. C. E. BESSEY, Ames, Iowa.